TargetMol®

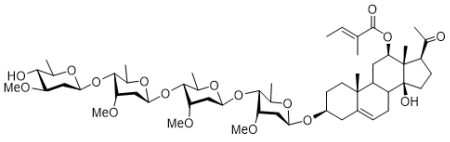
A DRUG SCREENING EXPERT

Natural Product Library

Background

Natural products have been acknowledged for numerous years as a vital source of new drug development, new active ingredients and new ideas. From the 1940s to the present, nearly 75% of newly discovered small molecule anticancer drugs have been associated with natural products, and 21 natural product derivatives were marketed between 1998 and 2004, with an additional 19 derivatives approved in the following 5 years. Many natural products and their derivatives are powerful tools for studying and modulating protein functions.

As a gift from nature to mankind, natural products, even if unable to become drugs directly, can often inspire and guide researchers, seeking various ways to contribute to scientific research.



Top Selected Natural Product Libraries

1） Featured Natural Product Library

At present, there are two major challenges in natural products research:
(1) The isolation and purification of natural product monomers as research samples;
(2) Once monomers of interest are found, the optimization of the monomer structure for future derivatives with better medicinal properties.
Based on these challenges, TargetMol® has launched a variety of Natural Product Libraries.

Natural Product Libraries (HTS)

Products	ID
Natural Product Library for HTS	L6000

Natural Product Libraries (Derivatives)

Products	ID
Natural Product Derivatives Library	NY1000

Natural Product Libraries (Monomers)

Products	ID
Selectable Natural Product Library	L6020

Characteristic Natural Product Libraries

Products	ID
Anti-Gastroenteritis Natural Product Library	L6600
Anti-Tumor Natural Product Library	L6700
Anti-COVID-19 Traditional Chinese Medicine Compound Library	L6720
Microbial Natural Product Library	L6500
Selected Plant-Sourced Compound Library	L4600

Products	ID
Alkaloid Natural Product Library	L6110
Flavonoid Natural Product Library	L6120
Terpene Natural Product Library	L6130
Food as Medicine Compound Library	L6300
Chinese Pharmacopoeia Natural Product Library	L6800

Products	ID
Traditional Chinese Medicine Monomer Library	L6810
Tibetan Medicine Compound Library	L6210
Anti-Inflammatory Traditional Chinese Medicine Compound Library	L6710
Saccharide and Glycoside Natural Product Library	L6140
Polyphenolic Natural Product Library	L6100

inquiry@targetmol.com
(781) 999-4286
Official Website
https://www.targetmol.com/
36 Washington Street, Wellesley Hills, MA 02481 USA
Facebook
Linkedin
Instagram

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2.1） Popular Natural Products (categorized by structures)

The chemical structures of natural products are the basis of their bioactivities. Different sources of natural products result in a variety of different chemical structures. Therefore, a diversified species collection ensured the structural diversity of extracted monomers. We have summarized some classic natural product structures from the monomers of 18,000 natural products, such as Ketones, Alkaloids, Quinones, Lignans, and Coumarins in plants; Polysaccharides, Enzymes, Antibiotics, Amino Acids, etc. in microorganisms.

Alkaloids

Products	ID
Quinine	T0690
(S)-(+)-Camptothecin	T1123
Berberine	T4S0797

Phenols

Products	ID
Resveratrol	T1558
Tannic Acid	T0801
Cianidanol	T0822

Ketones

Products	ID
Quercetin Dihydrate	T6630
Silibinin	T1660
Rutin	T0795

Terpenoids

Products	ID
Ursolic Acid	T0722
Oleanolic Acid	T2865
Andrographolide	T2898

Quinones

Products	ID
Aloe-emodin	T2843
Alkannin	T4958
Embelin	T6485

Phenylpropanoids

Products	ID
Psoralen	T2942
Magnolol	T3000
Fraxetin	T2909

Coumarins

Products	ID
8-Methoxypsoralen	T1548
Coumarin	T0775
Praeruptorin E	T4S1422

Steroids

Products	ID
Chenodeoxycholic Acid	T0847
Asiatic Acid	T2827
Cholic Acid	T2963

Lignans

Products	ID
Etoposide	T0132
Picropodophyllin	T6943
Gomisin A	T6S1917

2.2） Popular Natural Products (categorized by plant sources)

Historically, natural products (NPs) have played a key role in drug discovery, especially for cancer and infectious diseases.[1] [2]

A broad and diverse herbal source is an important guarantee for a high-quality Natural Product Library. TargetMol® has collected massive relevant information of nearly 10,000 natural product monomers and numerous plants in 196 families, 887 genera. We can be a great help for you to search your desired compounds according to plant classifications:

Caprifoliaceae

Products	ID
Apigenin	T2175
1,5-Dicaffeoylquinic Acid	T6S1529
Neochlorogenic Acid	T6S1538

Solanaceae

Products	ID
Anisodamine	T0970
Scopolin	T3888
Scopolamine	T3S0478

Rutaceae

Products	ID
(+)-Pilocarpine Hydrochloride	T0804
Naringenin	T2838
Hesperidin	T1035

Liliaceae

Products	ID
Angelic Acid	T3328
Ligustilide	T5S1287
Decursinol	T8169

Umbelliferae

Products	ID
Ferulic Acid	T2215
Decursin	T3S1416
Notopterol	T6S1435

Oleaceae

Products	ID
Luteolin	T1027
Fraxin	T3783
Forsythoside A	T3670

Inquiry and Order

We are able to customize exclusive Natural Product Libraries according to the needs of customers. In addition, we also provide corresponding drug activity screening services to help customers without sufficient experimental conditions. Please feel free to consult our technical supports by sending emails to info@targetmol.com

[1] Atanasov, A. G. et al. Discovery and resupply of pharmacologically active plant-derived natural products: a review. ***Biotechnol. Adv. 33***, 1582–1614 (2015).

[2] Harvey, A. L., Edrada-Ebel, R. & Quinn, R. J. The re-emergence of natural products for drug discovery in the genomics era. ***Nat. Rev. Drug Discov. 14***, 111–129 (2015).

* All products are for Research Use Only. Not for Human or Veterinary or Therapeutic Use.